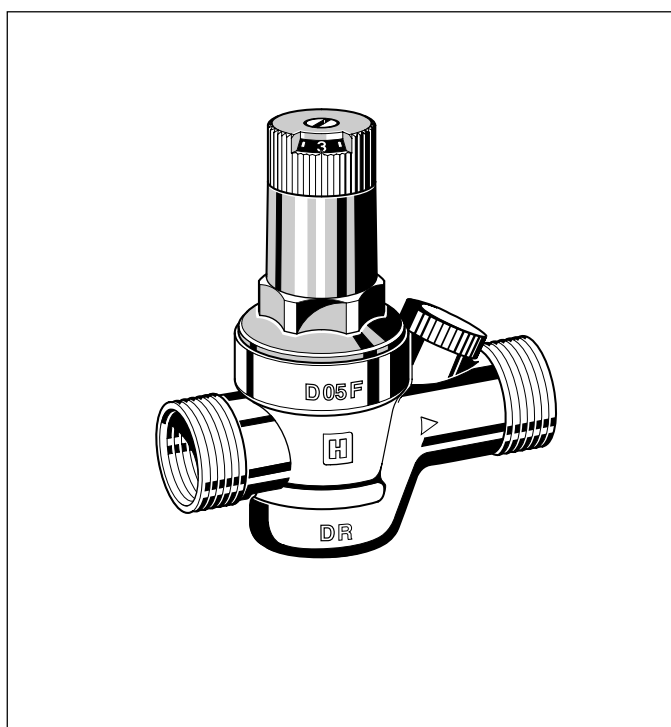


D 05 F

Pressure reducing valve with balanced seat Standard pattern

Product specification sheet



D 05 F pressure reducing valves protect installations against excessive pressure from the supply. They can be used for household, industrial or commercial applications within the range of their specification.

By installing a pressure reducing valve, pressurisation damage is avoided and water consumption is reduced. The set pressure is also maintained constant, even when there is wide inlet pressure fluctuation. Reduction of the operating pressure and maintaining it at a constant level minimises flow noise in the installation.

Special Features

- The set pressure is achieved by turning the adjustment knob
- The set pressure is directly indicated on the set point scale
- The adjustment spring is not in contact with the potable water
- The valve insert is of high quality synthetic material and can be fully exchanged
- Inlet pressure balancing – fluctuating inlet pressure does not influence outlet pressure
- **inService** – Servicing and maintenance without removal from pipework
- Reliable and proven
- Light weight

Range of Application

Medium:	Water, compressed air and nitrogen
Inlet pressure:	Maximum 25.0 bar
Outlet pressure:	1.5 - 6.0 bar

Technical Data

Operating temperature:	Maximum 70 °C
Nominal pressure rating:	1 bar
Connection sizes:	1/2", 3/4"

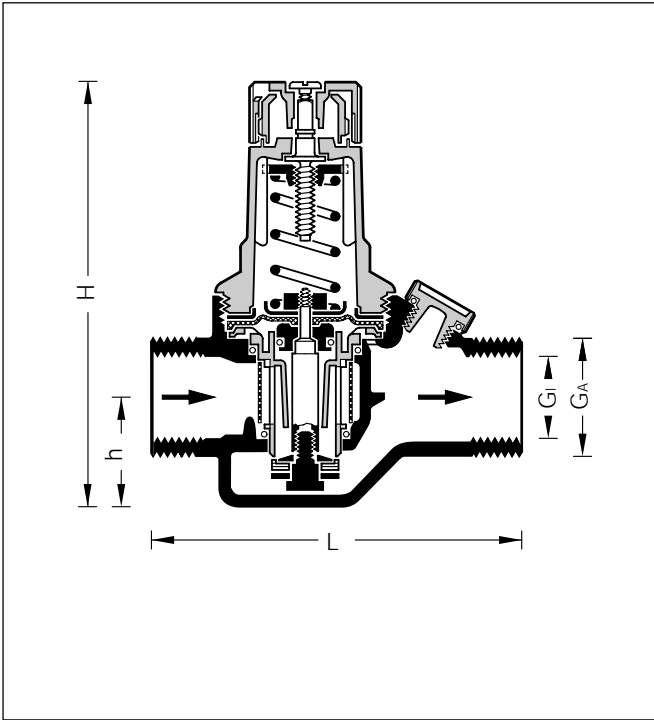
Construction

The pressure reducing valve comprises:

- Housing G 1/4" pressure gauge connection
- Male and female thread connections
- Valve insert complete with diaphragm and valve seat
- Filter sieve
- Spring bonnet with adjustment knob and setting scale
- Adjustment spring
- Without pressure gauge, see accessories

Materials

- Dezincification resistant brass housing
- High quality synthetic material valve insert
- Stainless steel filter mesh
- High quality synthetic material spring bonnet with adjustment knob and setting scale
- Fibre-reinforced NBR diaphragm
- NBR seals
- Spring steel adjustment spring



Method of Operation

Spring loaded pressure reducing valves operate by means of a force equalising system. The force of a diaphragm operates against the force of an adjustment spring. If the outlet pressure and therefore diaphragm force fall because water is drawn, the then greater force of the spring causes the valve to open. The outlet pressure then increases until the forces between the diaphragm and the spring are equal again.

The inlet pressure has no influence in either opening or closing of the valve. Because of this, inlet pressure fluctuation does not influence the outlet pressure, thus providing inlet pressure balancing.

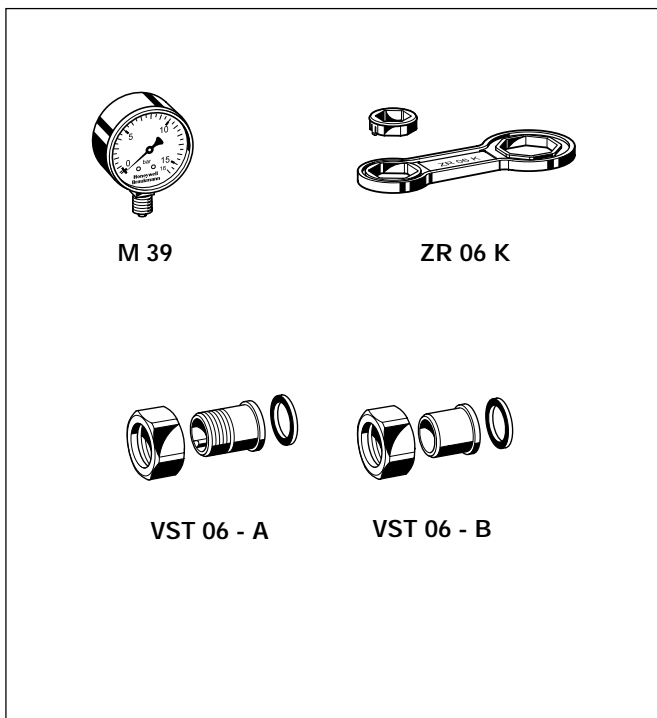
Options

D 05 F- . . . E = Standard version



Connection size

Connection size	G _i G _a	1/2" 3/4"	3/4" 1"
Nominal size	DN	15	20
Weight	approx. (kg)	0.5	0.57
Dimensions	(mm)		
	L	90	100
	H	122	122
	h	33	33
k _{vs} -value		2.6	2.8
Peak flow rate (m ³ /h) according to DIN 1988, Pt 5:			
Household installations		1.8	2.9
Commercial installations		1.8	3.3



Accessories

M 39 Pressure gauge

Housing diameter 63 mm, bottom connection thread G 1/4".

Ranges: 0 – 4, 0 – 10 bar.

Please indicate upper value of pressure range when ordering.

ZR 06 K Double ring wrench

For removal of spring bonnet

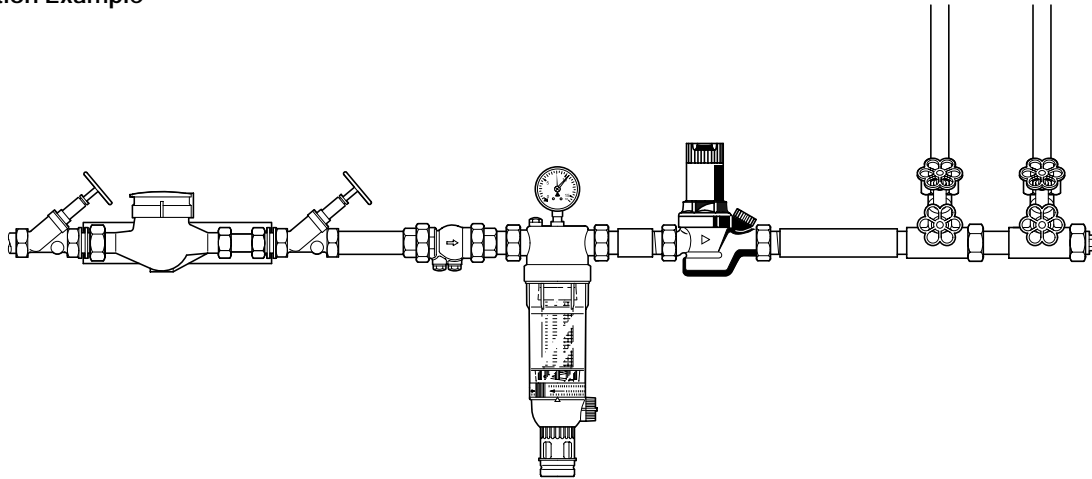
VST 06 Connention set

With threaded or soldered unions

A = Threaded tailpiece

B = Soldered tailpiece

Installation Example



Connection Size	R	1/2"	3/4"
W*	(mm)	55	55

*Minimum distance from wall to centre line of pipework

Installation Guidelines

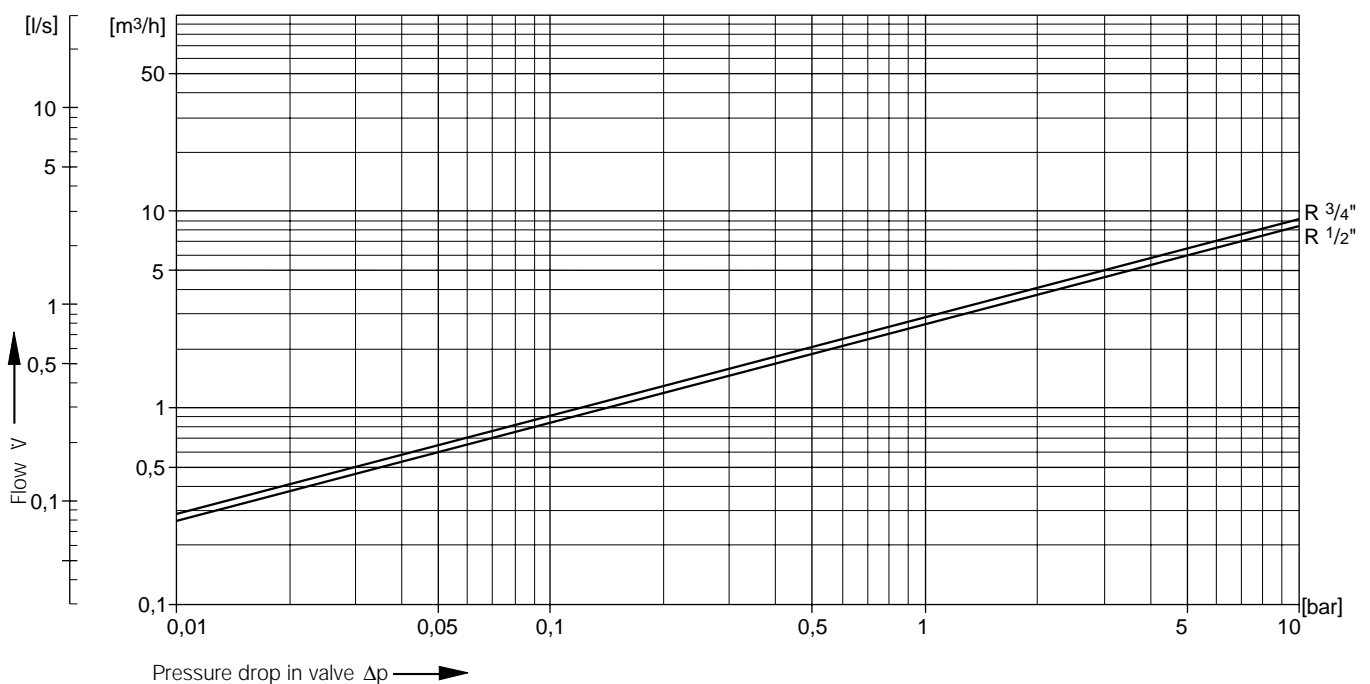
- Installation in horizontal or vertical pipework with spring bonnet upwards
- Fit shut off valves
 - This permits **inService** – servicing and maintenance without removal from pipework
- Ensure good accessibility
 - So that the pressure gauge can be easily seen
 - Simplifies maintenance and inspection
- Install downstream of a fine filter
 - Gives pressure reducing valve maximum protection against dirt
- If sufficient space is available, it is recommended that a straight section of pipework of at least five times the nominal valve size is provided after the pressure reducing valve

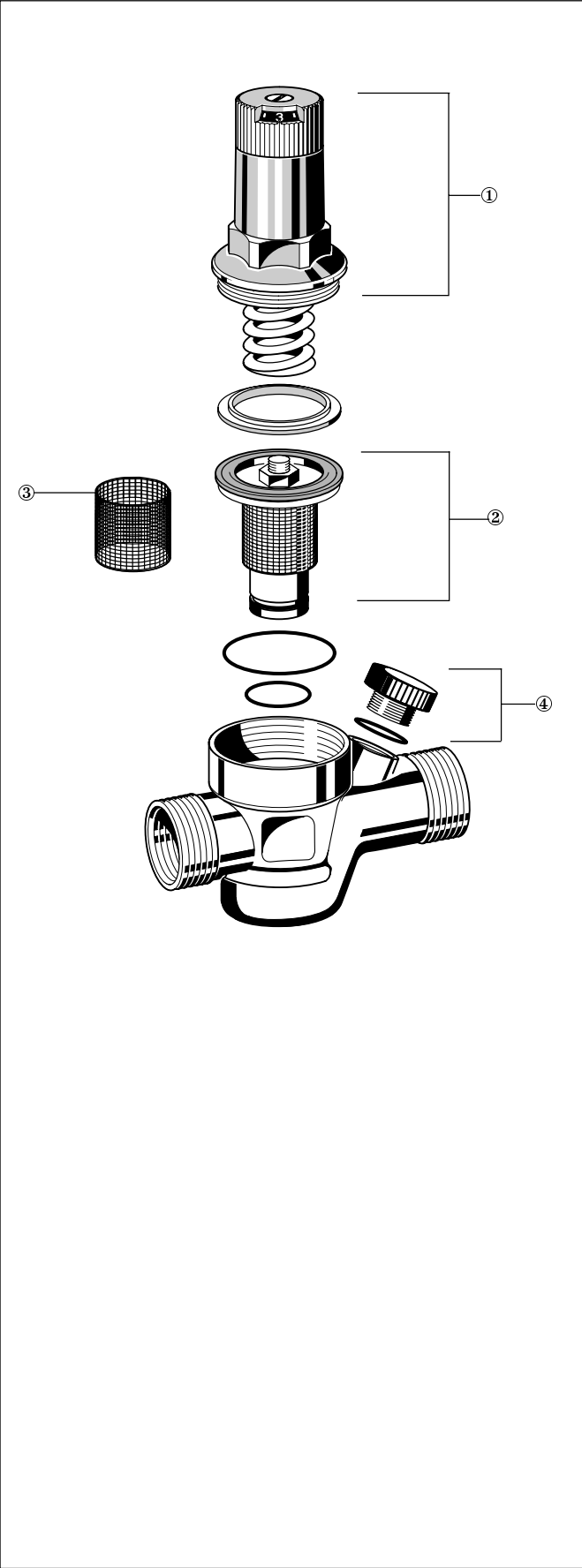
Typical Applications

D 05 F pressure reducing valves are suitable for household, industrial and commercial applications within the range of their specifications.

Pressure reducing valves should be installed:

- If the static pressure exceeds the maximum permissible value for the system
- If several pressure zones are required when a pressurisation system is used (pressure reducers on each storey of a building)
- To achieve constant inlet and outlet pressures on pumped pressure boosting systems
- If pressure fluctuations in the downstream system must be avoided





Spare Parts for D 05 F Pressure Reducing Valves

Description	Nominal size	Part number
① Spring bonnet complete	1/2" + 3/4"	0901515
② Valve insert complete	1/2" + 3/4"	D 05 FA – 1/2 B
③ Replacement filter insert	1/2" + 3/4"	ES 05 F – 1/2 A
④ Blanking plug with O-ring R 1/4" (5 pcs.)	1/2" + 3/4"	S 06 K – 1/4

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